

NO.	REVISION	BY	CH	SUP	APPROVED	DATE
1	REVISED PER ECN-4871	LM	SR	JS	S. RAFTOPOULOS	6-23-04
2	REVISED PER ECN-4875	LM	SR	JS	S. RAFTOPOULOS	6-30-04

CUT ON BOTH ENDS OF RACK TO BE MADE SUCH THAT WHEN MATING RACKS ARE MOUNTED ON ROLLED OUTER SUPPORT CHANNEL (SE144-013) AT NEXT ASSEMBLY, A FULL TOOTH GAP IS MAINTAINED.  
SEE NOTE 2

R62.00 REF  
(61.875 P.D.)

- NOTES**
- R60.50 TO MATCH RADIUS OF ROLLED OUTER SUPPORT CHANNEL. SEE DRAWING SE144-013.
  - AT NEXT ASSEMBLY (DWG SE144-007) (3) OF THESE PARTS MOUNTED IN FINAL POSITION SHALL COMPRISE A TOTAL OF 990 TEETH.

2  
120.0°  
NOT TO SCALE

1.50 STOCK  
R60.50  
SEE NOTE 1

**RELEASED FOR FABRICATION / INSTALLATION**  
PPPL Drafting:

RELEASE LEVEL: Fabrication  
DWG VERSION NO: 0

WEIGHT  
40.2 lbs  
MODEL NAME  
SE144-015  
WELDING ENGINEER

PART NO.	DRAWING NO	NOMENCLATURE OR DESCRIPTION	MATERIAL	QTY RECD
1	SE144-015	ROLLED RACK GEAR- 8 PITCH 14 1/2° PRESSURE ANGLE	STEEL	18
PARTS LIST				
COMPUTER GENERATED DRAWING MANUAL CHANGES NOT PERMITTED		CENTRAL FILES: UNLESS OTHERWISE SPECIFIED	PRINCETON PLASMA PHYSICS LABORATORY PRINCETON UNIVERSITY	
DO NOT VERIFY INFORMATION BY SCALING DRAWING		DIMENSIONS ARE IN INCHES MACHINE SURFACES UNLESS OTHERWISE SPECIFIED	NATIONAL COMPACT STELLARATOR EXPERIMENT	
SCALE: 1/2		TOLERANCES NON-CUMULATIVE	DSN: L. MORRIS	12-23-03
NEXT ASSEMBLY		DECIMAL-INCH FRACTIONS	CHK: S. RAFTOPOULOS	12-23-03
		.XX ±.000	ENGR: S. RAFTOPOULOS	12-23-03
		.XXX ±.005	SUPV: J. SIEGEL	12-23-03
		ANGULAR ±.0°-15°		
			DRAWING NO:	SE144-015
			SHEET 1 OF 1	REV 2

NCSX-SE144-015